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17 JAN 1973

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[Redacted]

Copy 9 of 12

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MEMORANDUM FOR: Director, CIA Reconnaissance Programs

SUBJECT: Program Progress Report

Forwarded herewith are three copies of the IDEALIST
Program Progress Report for the period 1 October 1972 -
31 December 1972.

[Redacted]

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WENDELL L. BEVAN, JR.
Brigadier General, USAF
Director of Special Activities

Attachments -

As stated [Redacted]

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NRO review(s) completed.

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[Redacted]

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SAS/O/OSA [redacted] (8 January 1973)

Distribution:

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- 7 - D/O/OSA
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- 9 - INTEL/O/OSA
- 10 - D/M/OSA
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7. Mission C402C, flown on 18 November 1972, covered targets along the southern coast of the Shantung Peninsula and south to Shanghai. A total of 91 targets were covered of which 75 were programmed and 16 were bonus. [REDACTED]

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8. Mission C422C, flown on 20 December 1972, was designed to provide [REDACTED] photo coverage of all offshore islands from Shantung south to the Taiwan Straits. Deteriorating weather precluded photo coverage of all but the northern portion of the route.

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II. [REDACTED] GENERAL

A. [REDACTED] RED DOT - Three sorties were flown in support of continuing film tests using various film types and camera configurations.

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C. [REDACTED] Lens - Ten sorties were flown to test the second color corrected lens for the "H" configuration. Two sorties were flown as base line tests for the color corrected "B" lens.

D. [REDACTED] BLUE GULL - T-2 training was accomplished for two U-2 pilots at Pensacola, Florida, NAS.

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E. Pilot Training - [] completed initial qualification training [] for operational duties. The Commander of Detachment "G" began U-2R qualification training with estimated completion during the third quarter. He will qualify for low altitude flight only.

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F. Multi-Spectral - Two sorties were flown to accomplish qualification testing of a multi-spectral sensor for use in the COMPASS TRIP program.

G. SCOPE SAINT VI - The Edwards Detachment conducted an exercise deployment of one U-2R [] Two training sorties were accomplished, followed by redeployment to Edwards AFB, California.

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H. COMPASS TRIP - Eleven sorties were flown providing multi-sensor coverage of controlled poppy growth in Puerto Rico. The color, black and white, and multi-spectral imagery will be used in an attempt to develop a photo interpretation key for use with satellite imagery. McCoy AFB, Florida, is used as an operating location.

III. PILOT AND AIRCRAFT STATUS (AS OF 31 DECEMBER 1972)

A. Detachment "G" (Edwards AFB - North Base)

Aircraft 2 U-2R

Pilots []

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B. Detachment "H"

Aircraft []

Pilots []

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Section 2

IDEALIST

DEVELOPMENT SUMMARY AND PROGRESS

(1 October 1972 - 31 December 1972)

I. AIRFRAME

A. J-75P13B Engine - The installation of improved third stage turbine blades to increase engine life expectancy has continued during this quarter. Additionally, improved first stage turbine blades have been developed and will be installed in all engines as overhauls become due, and new blades become available. Engine Serial Number 612609 was the first to be modified with new first stage blades on 3 November 1972.

B. U-2R Flight Test and Operational Training Summary

1. IDEALIST Program accomplishments in U-2R aircraft since introduction include 10,094.9 hours on 3082 sorties as of 31 December 1972.

2. Flight test and operational data are depicted below:

	<u>1 OCT-31 DEC</u> <u>FLIGHTS</u>	<u>1 OCT-31 DEC</u> <u>TIME</u>
1 - 051	44	114.2
2 - 053	44	121.6
3 - 054	42	184.2
4 - 055	46	153.8
TOTAL	176	573.8

II. PAYLOAD

A. "H" Configuration - The new lens installed in "H" Serial Number 002 produced unsatisfactory results during flight testing and qualification. The configuration was returned to the contractor's

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facility for engineering evaluation in early December, and should be available for flight testing again in January 1973.

B. "B" Configuration - The first of two new F/8 lenses for the B-3 camera was ready for installation on 16 December 1972. The system will start flight test toward qualification during January/February 1973. The second lens is scheduled for completion in March 1973. If this schedule holds, the camera will be flight tested during the fourth quarter.

C. [] Camera - OSA will provide technical and contractual support to OSP and the NRO during the proposed acquisition of a second F3.5 Apochromatic lens, and variable slit modifications to the scan heads of this camera. OSA involvement is expected to continue until the third quarter of FY 1974.

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IV. SUPPLY

A staff assistance visit was made to Detachment "H" during October 1972. Discussions with personnel and review of supply procedures, and audited records indicated an effective and efficient operation.

V. AERO MEDICAL AND LIFE SUPPORT ACTIVITIES

A. Medical Activities

1. Office of ELINT Briefing - The OSA Medical Staff presented medical briefings to OEL students on high altitude physiology. C/AMS/OSA, served as the attending flight surgeon during the low pressure chamber indoctrination flights.

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B. Life Support Activities

1. Low Flight Ventilation Unit - The redesigned ventilation inlet has now been incorporated into the low flight harness assembly. By doing this, the aircraft vent hose will be compatible with both the low flight vent unit and the S1010 Pilot Protective Assembly (PPA) Full Pressure Suit.

2. Olive-Green Nomex Fabric - The standard olive-green nomex fabric used to fabricate the outer cover of the S1010 PPA is no longer available. A new vendor has been located who can supply a similar nomex material of a slightly harder finish and this will be used on all future S1010 PPA outer covers.

3. Pilot Transfer Van - The Edwards AFB Physiological Support facility recently declared one of their pilot transfer vans excess and Detachment "H" Life Support has added it to their Stock List of Equipment. This will now satisfy the IDEALIST mission requirements, and it will be unnecessary to reclaim the transfer van previously loaned to the Air Force U-2 Program at Davis-Monthan AFB.

4. Automatic Seat Kit - A proposal submitted by [] for improvement of the automatic seat kit hardware has been approved during this quarter. Both customers agree the effort is of great value and money was appropriated equally from the Air Force U-2 and the IDEALIST Programs.

[] is the subcontractor [] for the design and R&D of the automatically deployment feature which will be added to the Standard U-2R Survival Seat Kit.

5. Display - In early October 1972 the Cuban Missile Crisis display was opened at the CIA Headquarters Building. Included in this presentation was the entire Life Support Assembly worn and carried by the Agency U-2 pilots during their early missions over Cuban targets. Although much of the equipment is outdated and antiquated by today's U-2R standards, it does give an accurate historical account of Life Support equipment ten years ago.

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C. [] Training Activities

1. [] Survival and Evasion Training at Detachment "H" -
Refresher survival and evasion training was completed at
Detachment "H" [] This training was
conducted by two project survival instructors over a two week
period.

2. [] Survival and Flight Equipment (SAFE) Meeting -
[] attended the annual SAFE Association meeting
held in Phoenix, Arizona, the week of 1 October 1972.

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